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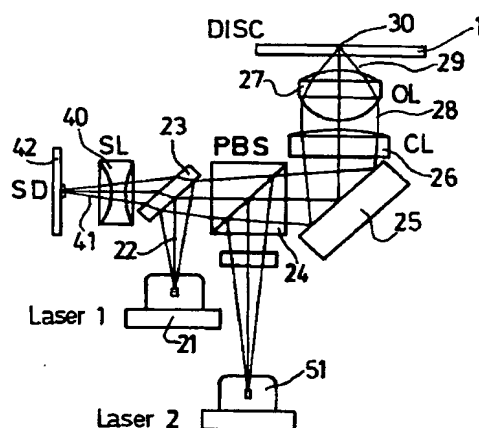
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(54) Title: DISC DRIVE FOR AN OPTICAL SCANNING DEVICE



(57) Abstract: The invention relates to an optical disc drive that comprises rotating means, defining a rotating axis for an optical disc, and an optical scanning device, for scanning said optical disc with a light beam. These optical scanning means themselves comprise a first light source, for producing said first light beam, focusing means, provided between the first light source and a focusing point on an information layer on the disc, an optical detector, for receiving a first backward beam reflected from said information layer, and a second light source, for producing a second light beam also transmitted to said focusing means and for measuring tilt from the position, on said optical detector, of a second spot corresponding to a second backward beam obtained after reflection of the second light beam on the information layer. According to the invention, a diffractive structure, provided with diffracting elements for substantially refocusing the returning second beam onto the detector, is provided between said focusing point and said optical detector. This diffractive structure, consisting of a series of ring-shaped prisms, is attached either to one surface of a servo-lens positioned just before said optical detector, or to one surface of an objective lens used as focusing means, or to a separate plate. The diffractive structure may also be approximated by a step-wise structure.

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